

Weighted monotonicity inequalities for traces on operator algebras

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Abstract

We study inequalities of the form, where τ is a trace on a von Neumann algebra or a C^* -algebra, A and B are self-adjoint elements of the algebra in question, f and w are real-valued functions, and the "weight" function w is nonnegative. © 2010 Pleiades Publishing, Ltd.

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Keywords

Borel function, C^* -algebra, Hermitian matrix, monotonicity, self-adjoint element, trace, tracial functional, von Neumann algebra, weight function